B3. CHANNELS

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B3. CHANNELS

B3.1 Provision of Service

B3.1.1 General

A. Channel Services provided under the provisions of this Tariff are offered for IntraLATA Services only. Services consisting of Local Channels, Interoffice Channels, and Optional Features and Functions are classified by series. The various series are sub-divided into different types and are described in terms of circuit characteristics and use. The Analog Channel Services are - Sub Voice Grade (Series 1000), Voice Grade (Series 2000) and Wired Music (Series 6000).

B. Customers may order local channels which are designed to meet specific communications requirements. The customer is responsible for determining that his terminal equipment is compatible with the service provided by the Company.

C. Where multi-point service is furnished, the local channels are bridged in the wire center.

D. Dedicated circuits between the customer's interLATA Electronic Tandem Switching (ETS) function and the customer's other location(s) within the same LATA will be provided from this Tariff. Where this service is provided by the Company as a feature of ESSX® service, the transport of traffic between the ETS function and the basic ESSX® service function may be performed by the Company's network switching facilities. Simulated Facility Group charges for this service will apply and are found in A12.1.7. and A12.13.7. of the General Subscriber Service Tariff.

B3.1.2 Application

The rates and charges specified herein apply for all IntraLATA Private Line services provided by the Company.

B3.1.3 Rate Categories

A. Following are the basic rate categories which apply to Private Line service.

1. Local Channels

   a. A local channel provides for a communications path between a designated customer premises and the serving wire center of that premises. One local channel charge applies per channel termination.

   b. When service is provided by non-wire center connected channels, a non-wire center connected channel charge applies in lieu of local channel charges.

2. Interoffice Channels

   This rate category provides for the transmission facilities between serving wire centers associated with two customer premises, between serving wire centers associated with a customer premises and a Company hub, or between two Company hubs.

   Interoffice mileage is portrayed in mileage bands. A flat rate and a rate per mile applies to each band. For method of determining mileage, see B3.3.3.A.

3. Non-Wire Center Connected Channels

   Served Direct channels are provided on a direct basis and are limited to one airline mile in length. These channels will be provided only at the option of the Company.

4. Optional Features and Functions

B3. CHANNELS

B3.1 Provision of Service (Cont'd)

B3.1.3 Rate Categories (Cont'd)

A. Following are the basic rate categories which apply to Private Line service. (Cont'd)

4. Optional Features and Functions (Cont'd)

This rate category provides for features and functions which may be added to a service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of the performance characteristics which may be obtained. This category includes a. and b. following:

a. Hub Functions

A hub is a Company designated wire center where bridging or multiplexing functions are performed i.e., connecting three or more customer premises in a multipoint arrangement or channelizing analog or digital services requiring a lower capacity or bandwidth.

b. Provides for such things as signaling, conditioning, bridging, etc.

B3.1.4 Service Configurations

A. There are two types of service configurations which can be provided. These are described as follows:

1. Two-Point Service

A two-point service connects two customer premises either directly through a serving wire center(s) or through a Company hub where additional functions are performed. A two-point service may utilize non-wire center connected channels only at the option of the Company.

2. Multipoint Service

a. Multipoint service connects three or more customer premises through a Company hub.

b. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between hubs (i.e., bridging locations).

c. Voice Grade (Series 2000) Multipoint Channel services for data use have a limit of 6 two-wire facility type local channels or 20 four-wire facility type local channels when used with customer-provided station equipment. These units do not apply to Telemetry/Alarm Bridging Service (TABS). (C)

d. The types of service available for multipoint applications are designated in the service descriptions set forth in B3.2 following.[1] (T)

B3.1.5 Special Routing of IntraLATA Channels

A. The private line services furnished in this ***Guidebook*** are provided over such routes as the Company may elect. (T)

Note *1*: The channels for use in multipoint arrangements are types 1204, 1205, 2230, 2435, 2463, 2464 and 6210 through 6217. (T)

B3. CHANNELS

B3.1 Provision of Service (Cont'd)

B3.1.5 Special Routing of IntraLATA Channels (Cont'd)

B. Special routing is involved where, in order to comply with requirements specified by the customer, the Company furnishes the private line service in a manner which includes one or both of the following conditions:

1. Where two or more private lines must be furnished over different physical routes.
2. Where a private line must be furnished on a route which avoids specified geographical locations.

C. When special routing of services is furnished to a customer, the rates will be determined on an individual case basis.

B3.2 Service Descriptions

B3.2.1 Sub Voice Grade Services - Series 1000 Channels (Obsoleted, See Section B103.)

B3.2.2 Voice Grade Service - Series 2000

A. Series 2000 voice grade service provides for voice and/or data communications on a two point or multipoint basis for service 7 days per week, 24 hours per day, for a minimum period of one month. These channels may also be furnished on a link (partial channel) basis when connected to services such as FlexServ service, MegaLink channel service and/or LightGate service. Channels which provide Tie Line Service will not be furnished to connect a flat rate system with a message rate system. The transmission characteristics and various types of services furnished within this Series are described in B. and C. following. (T)

B. Basic parameters and specifications for Series 2000 voice grade service are described for the end to end operation as follows:

Basic Parameters	**For Speech Application**	**For Data Application**
Net Loss	Local Channels used with terminal equipment: Limit as specified in the following Local Channel descriptions. Losses or gains present in CPE have not been included.	
DC Resistance	Local Channel limit as specified in the following Local Channel descriptions. Does not imply or guarantee end to end DC continuity.	
Frequency Error	Plus or Minus 5 Hz	Plus or Minus 5 Hz
Frequency Response	(Referenced to 1000 Hz Loss)	
300 - 3000 Hz	-3dB to + 12dB	-3dB to +12dB
500 - 2500 Hz	-2dB to + 8dB	-2dB to + 8dB
Envelope Delay Distortion		
800 - 2600 Hz	Not Controlled	Less than 1750 Microseconds
C-Notched Noise (with a -13dBm0 1000 Hz Test Signal)	Not Controlled	Noise level 24dB below signal level

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B3. CHANNELS

B3.2 Service Descriptions (Cont'd)

B3.2.2 Voice Grade Service - Series 2000 (Cont'd)

B. Basic parameters and specifications for Series 2000 voice grade service are described for the end to end operation as follows: (Cont'd)

Basic Parameters	For Speech Application	For Data Application
Impulse Noise	Not Controlled	15 Counts in 15 minutes at a threshold of 6dB below a -13dBm0 rms 1000 Hz Signal
Phase Jitter	Not Controlled	10 degrees peak to peak
Non-Linear Distortion		
2nd Order Distortion	Not Controlled	25dB below signal level
3rd Order Distortion	Not Controlled	30dB below signal level

C. Transmission parameters for voice grade service are described following:

1. Type 2230 (2001/2101) - A two-wire interface with effective two-wire facilities engineered for a 1004 Hz net loss of 0 to 10dB. Generally furnished for voice transmission - Private Line Telephone, Mobile Radio Telephone, or Supervisory Control Use. Multipoint service may be provided at charges specified in section B3.4.4.A. following.
2. Type 2231 (2012/2112) - A two-wire interface with two or four-wire facilities engineered for a 1004 Hz net loss of 0dB to 4.5dB. This is generally used for PBX (or similar system) main or extension station services. Signaling is required for this service.
3. Type 2432 (2014/2114) - A two or four-wire interface with effective four-wire facilities engineered for tie line service use between PBX's or customer-provided communications systems. Signaling is required for this service.
4. Type 2434 (2015/2115) - A two or four-wire interface for connection to the serving wire center where loop facilities are not required. This channel is suitable for tie line service (with E&M signaling) between Centrex Type Services and may be connected with Type 2432 local channels.
5. Type 2435 - A four-wire interface with effective four-wire facilities engineered for a 1004 Hz net loss of 0 to 16db. Generally furnished for voice transmission. Multipoint service may be provided at charges specified in B3.4.4.A. following.
6. Type 2260 (2021/2121) - A two-wire[1] interface with effective two-wire facilities engineered for a 1004 Hz net loss of 16dB. Generally used in the provision of low speed (1200 baud or less) half duplex data services.
7. Type 2261 (2040/2140) - A two-wire interface with effective two-wire facilities engineered for use in Telemetry/Alarm Bridging Service (TABS). (C)

Note 1: Transmission data characteristics can only be met and guaranteed for the two-wire interface when the airline distance from the serving wire center to the customer's premises is one mile or less and the interoffice channel is not greater than 4 airline miles between serving wire centers.

B3. CHANNELS

B3.2 Service Descriptions (Cont'd)

B3.2.2 Voice Grade Service - Series 2000 (Cont'd)

C. Transmission parameters for voice grade service are described following: (Cont'd)

8. Type 2462 (2041/2141) - A four-wire interface with effective four-wire facilities engineered for use in WatchAlert service or Telemetry/Alarm Bridging Service (TABS). (C)
9. Type 2463 (2020/2120) - A four-wire interface with four-wire facilities engineered for a 1004 Hz net loss of 16dB. Generally used in the provision of analog data services. Multipoint service may be provided at charges specified in B3.4.4.A. following.
10. Type 2464 (2022/2122) - A two-wire interface with four-wire facilities engineered for a 1004 Hz net loss of 16dB. Generally used in the provision of analog data services. Multipoint service may be provided at charges specified in B3.4.4.A. following.

D. Signaling Arrangements

1. Off Premises Stations

   a. For use with PBX (or similar system) off-premises channels for terminal equipment. Signaling arrangements are furnished for grandfathered and registered PBX (or similar) systems in accordance with Part 68 of the FCC Rules and Regulations or for customer-provided communications systems not subject to Part 68 of the FCC Rules and Regulations.

      Type A - Furnished for use with Class A PBX (or similar) system station ports capable of operation over loops with resistance in the range of 0-199 ohms.

      Type B - Furnished for use with Class B PBX (or similar) system station ports capable of operations over loops with resistance in the range of 200-899 ohms.

      Type C - Furnished for use with Class C PBX (or similar) system station ports capable of operation over loops with resistance in the range of 900 ohms or more.

   b. For connections to registered or grandfathered PBX (or similar) system equipment, the customer must specify the equipment capability for use with Type A, B, or C Signaling Arrangements.

2. Tie Lines

   a. E&M signaling is provided for use with tie line channels with E&M signaling interfaces. Signaling Arrangements are furnished for grandfathered and registered PBX's in accordance with Part 68 of the FCC Rules and Regulations or for customer-provided communications systems not subject to Part 68 of the FCC Rules and Regulations.

      - An E&M Signaling Arrangement is required for each tie line termination, operating in a Dial Repeating mode, at a customer's premises with a registered PBX.

      - An E&M Signaling Arrangement is required for each tie line termination at a customer's premises with grandfathered PBX's when the tie line is arranged with an E&M signaling interface.

B3. CHANNELS

B3.2 Service Descriptions (Cont'd)

B3.2.2 Voice Grade Service - Series 2000 (Cont'd)

D. Signaling Arrangements (Cont'd)

2. Tie Lines (Cont'd)

a. (Cont'd)

- An E&M Signaling Arrangement is not required with Types 2432 and 2434 channels for additions to or for new installations of grandfathered PBX equipment when not arranged with an E&M signaling interface.
- An E&M Signaling Arrangement is required for each Type 2432 or 2434 channel termination at a customer's premises with a customer-provided communications system not subject to Part 68 of the FCC Rules and Regulations when arranged with an E&M signaling interface.

E. (Obsoleted, See Section B103.)

F. Telemetry/Alarm Bridging Service (TABS)

1. Regulations

a. This Tariff section contains the regulations applicable for Telemetry/Alarm Bridging Service (TABS)

b. Except as otherwise specified following, the regulations contained herein are in addition to the regulations found in other sections of this Tariff.

c. TABS requires the use of equipment as specified herein and Type 2261 or 2462 voice grade local channels described in C. preceding.

d. Terminal equipment provided by the customer for use with TABS must meet specifications for such customer-provided equipment found in other sections of this Tariff.

e. No more than 128 remote stations may be connected to a master station over an individual Split Band Active Bridge.

f. In Split Band Active Bridging arrangements, secondary bridges must be directly connected to the primary bridge via mid-link channels. Secondary bridges cannot be connected through other secondary bridges to allow additional layers of tandeming.

g. Secondary bridges, utilized in Split Band, Active Bridging arrangements, reduce the two-wire remote station capacity of the primary bridge. The initial secondary bridge reduces the primary bridge capacity by twelve two-wire remote station connections. Each subsequent secondary bridge reduces the primary bridge capacity by four additional two-wire remote station connections.

h. Standard multipoint bridging charges as provided in other sections of this Tariff are not applicable to TABS.

i. Access over four-wire master station channels for Split Band Active Bridging is provided using a Type 2462 local channel.

j. Access over remote station channels is provided through a Type 2261 local channel and through the appropriate channel connection as contained in B3.4.4.A.1.e. following. Interconnection of remote stations located outside the serving wire center where the bridge to which they are to be connected is located will require interoffice channels at charges contained in B3.4.3. of this Tariff.

B3. CHANNELS

B3.2 Service Descriptions (Cont'd)

B3.2.2 Voice Grade Service - Series 2000 (Cont'd)

F. Telemetry/Alarm Bridging Service (TABS) (Cont'd)

1. Regulations (Cont'd)

   k. Access over each four-wire mid-link channel for Split Band Active Bridging is through voice grade interoffice channels at charges contained in B3.4.3. of this Tariff. Additionally, mid-link channel connections are required as described in B3.4.4.A.1.e. following.

2. Service Description

   a. Telemetry/Alarm Bridging Service is a multi-station, voice frequency, private line service designed to provide connections between a master station and a number of remote stations simultaneously. Direct transmission between remote stations is not intended. This service is intended for application in multipoint, voice frequency, data or tone signaling arrangements with transmisson at rates up to 400 baud.

   b. TABS is provided in the following arrangement:

      Split Band, Active Bridging - A bridging arrangement providing for a four-wire (master station or mid-link channel) frequency split common port and multiple two-wire (remote station) ports intended for application in multipoint, voice frequency, data or tone signaling arrangements. Two-way (polling) communication between the master station and each remote station is intended.

B3.2.3 Reserved for Future Use

B3.2.4 (Obsoleted, See Section B103)

B3. CHANNELS

B3.2 Service Descriptions (Cont'd)

B3.2.4 (Obsoleted, See Section B103)

B3. CHANNELS

B3.3 Rate Regulations

B3.3.1 Types of Rates and Charges

A. The two types of rates and charges are monthly rates and nonrecurring charges and are described as follows:

1. Monthly Rates

   Monthly rates are recurring charges that apply each month or fraction thereof that a service is provided. For billing purposes, each month is considered to have 30 days.

   (DELETED)

   (DELETED)

   Rates applicable to a month-to-month payment option are subject to Company initiated changes.

   (DELETED)

   (DELETED)

2. Nonrecurring Charges

   Nonrecurring Charges are one-time charges that apply for a specific work activity. The three types of nonrecurring charges that apply are installation of service, installation of features and functions and service rearrangements.

   a. Installation of Service

      Nonrecurring charges apply for each service terminated at the customer's premises. For the installation of local channels when more than one of the same type of service, between the same locations, for the same customer is ordered and installed at the same time, one at each location is billed at the First Service Installed rate and the others are billed at the Additional Service Installed rate. If additional services are installed at a later date, then the First Service Installed rate and the Additional Service rate would apply to those services regardless of what service already existed.

      (DELETED)

      The nonrecurring charges for the Installation of Services are set forth in B3.4 following as Nonrecurring Charges for the Local Channel and Interoffice Channel rate elements.

   b. Nonrecurring charges apply for the installation of features and functions available with the various services. For some features and functions there is a lower charge if installed coincident with the service and a higher charge if installed subsequent to the service. The "Initial" nonrecurring charge applies when the feature or function is installed at the same time as the service is installed. If the feature or function is installed after the service is established, then the "Subsequent" nonrecurring charge applies.

B3. CHANNELS

B3.3 Rate Regulations (Cont'd)

B3.3.1 Types of Rates and Charges (Cont'd)

A. The two types of rates and charges are monthly rates and nonrecurring charges and are described as follows: (Cont'd)

2. Nonrecurring Charges (Cont'd)

c. Service Rearrangements

(1) Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer premises. Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts. Changes in the physical location of the point of termination are treated as moves and are described and charged for as set forth in B3.3.2.

The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service.

Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Private Line Service to the same entity (i.e., customer remains responsible for all outstanding indebtedness for the service). Administrative changes are as follows:

- Change of customer name (i.e., the customer of record does not change but rather the customer of record changes name),
- Change of customer or customer's premises address when the change of address is not a result of a physical relocation of equipment.
- Change in billing data (name, address or contact name or telephone number).

(2) All other service rearrangements will be charged for as follows:

- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.
- If the change involves changing the type of signaling on a voice grade service the subsequent, nonrecurring charge will apply for the new type signaling. The charge will apply per service termination affected.
- For all other changes, including a change of the customer of record involving no physical changes to the service provided or the addition of optional features without separate nonrecurring charges, a charge equal to a local channel rate element nonrecurring charge will apply. Only one such charge will apply per service, per change.

Material previously appearing on this page now appears on page(s) 11 of this section.

B3. CHANNELS

B3.3 Rate Regulations (Cont'd)

B3.3.2 Moves

A. A move involves a change in the physical location of one of the following:

1. The point of interface at the customer premises.
2. The customer's premises.

B. The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

1. Moves Within the Same Building

   When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half the nonrecurring (i.e., installation) charge for the affected service termination at the customer's premises. There will be no change in the minimum period requirements. If a move is made at the same time a service rearrangement is made, the total charge will never exceed a full nonrecurring charge for the basic service.

2. To a Different Building

   Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established at the new location. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

B3.3.3 Mileage Measurements

A. When station locations of a private line service are located in different wire center serving areas, interoffice channel charges apply. Charges are based on the direct airline distance measured between the serving wire centers. Mileage is determined in accordance with the following:

1. Obtain the "V" and "H" coordinates for each wire center, as listed in the National Exchange Carrier Association Tariff F.C.C. No. 4.
2. Obtain the difference between the "V" coordinates of the two wire centers. Obtain the difference between the "H" coordinates. (The difference is always obtained by subtracting the smaller coordinate from the larger coordinate.)
3. Square each difference obtained in 2. preceding.
4. Add the squares of the "V" difference and the "H" difference obtained in 3. preceding.
5. Divide the sum of the squares obtained in 4. preceding by 10.
6. Obtain the square root of the result obtained in 5. preceding. This is the rate distance in miles. (Fractional miles being considered as full miles.)

   EXAMPLE: The rate distance is required between City One and City Two.

	V	H
City One	7260	2083
City Two	7364	1865

B3. CHANNELS

B3.3 Rate Regulations (Cont'd)

B3.3.3 Mileage Measurements (Cont'd)

A. (Cont'd)

6. Obtain the square root of the result obtained in 5. This is the rate distance in miles (Fractional miles being considered as full miles.) (Cont'd)

Difference	104	218	
Squared	10,816 + 47,524	=	58,340

58,340 divided by 10 = 5834

Square root of 5834 = 76.38 = 77 Airline miles

B. When a private line is furnished over facilities which the Company elects to provide on a direct basis and is not routed through a central office, one two-point channel charge will apply. The arrangement is limited to channels not more than one airline mile in length.

C. On a multipoint circuit, each channel connecting a hubbing wire center with a serving wire center or a hubbing wire center with another hubbing wire center or a serving wire center with another serving wire center is considered a separate channel for which a mileage charge is independently computed. The total charge for a multipoint channel is the combination of individual legs that connect all points and results in the lowest charge. Bridging charges apply when three or more channels connect at the same location.

D. For Series 1000 and 2000 channels the customer may specify the sequence in which the service points are to be connected in which case the rate mileage is the shortest airline mileage determined in accordance with paragraph C., which will connect the wire centers of the service points in the specified sequence.

B3.4 Rates and Charges

B3.4.1 Local Channels

A. Sub Voice Grade (Obsoleted, See B103.)

B. Voice Grade
Per point of termination

1. Voice

		Monthly Rate	Nonrecurring Charge First	Nonrecurring Charge Additional	USOC	
(a)	Type 2230	***$262.00***	**$448.80**	**$145.20**	**P2JUX**	(I)
(b)	Type 2231	***262.00***	**448.80**	**145.20**	**P2JHX**	(I)
(c)	Type 2432	***393.00***	**521.40**	**184.80**	**P2JQX**	(I)
(d)	Type 2434	***83.00***	**204.60**	**99.00**	**P2JGX**	(I)
(e)	Type 2435	***393.00***	**481.80**	**165.00**	**P2JWX**	(I)
(f)	Type 2261	***305.00***	**745.80**	**303.60**	**P2JLX**	(I)
(g)	Type 2462	***363.00***	**732.60**	**290.40**	**P2JRX**	(I)

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B3. CHANNELS

B3.4 Rates and Charges (Cont'd)

B3.4.1 Local Channels (Cont'd)

B. Voice Grade
Per point of termination (Cont'd)

2. Data

		Monthly Rate	Nonrecurring Charge First	Nonrecurring Charge Additional	USOC	
(a)	Type 2260	***$305.00***	**$534.60**	**$198.00**	**P2JKX**	(I)
(b)	Type 2463	***415.00***	**534.60**	**198.00**	**P2JMX**	(I)
(c)	Type 2464	***415.00***	**534.60**	**198.00**	**P2JNX**	(I)

C. (Obsoleted, See B103)

B3.4.2 Non-Wire Center Connected Channels[1]

A. Served Direct

1. Not routed via the central office, limited to one airline mile or less

		Monthly Rate	Nonrecurring Charge First	Nonrecurring Charge Additional	USOC	
(a)	Series 1000 (Obsoleted, See B103.)	-	-	-	**SDD1X**	
(b)	Series 2000	***$62.00***	**$627.00**	**$217.80**	**SDD2X**	(I)

Note 1: Nonrecurring charges are described in B3.3.1.A.

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B3. CHANNELS

B3.4 Rates and Charges (Cont'd)

B3.4.3 Interoffice Channels[1,2]

A. Fixed and Mileage Charges applicable

1. Sub Voice Grade - Series 1000 (Obsoleted, See B103.)
2. Voice Grade Service - Series 2000

	Fixed Monthly Charge	Monthly Charge Per Mile	Nonrecurring Charge Per Channel	USOC	
(a) 1 thru 8 Miles	**$378.00**	***$29.00***	**$117.48**	**3LBBS**	(I)
(b) 9 thru 25 Miles	**378.00**	***29.00***	**117.48**	**3LBBS**	(I)
(c) Over 25 Miles	**378.00**	***29.00***	**117.48**	**3LBBS**	(I)

3. (Obsoleted, See B103)

Note 1: Nonrecurring charges are described in B3.3.1.A.

Note 2: For method of determining mileage, see B.3.3.3.A.

B3. CHANNELS

B3.4 Rates and Charges (Cont'd)

B3.4.4 Optional Features and Functions[1]

A. Bridging

Bridging charges are applicable where more than two Local Channels, or one or more Local Channels and more than one Interoffice Channel, or more than one Local Channel and one Interoffice Channel are bridged or hubbed at the same wire center. No additional bridging charges are applicable for Series 1000, Types 1204 and 1205.

1. Voice Grade Bridges (Series 2000)

	Monthly Rate	Nonrecurring Charge	USOC	
a. Voice Bridging				
(1) Per Port				
(a) Two-Wire (Type 2230)	**$ *101.00***	**$ 40.92**	**BQ9**	(I)
(b) Four-Wire (Type 2435)	***113.00***	**40.92**	**BQ9**	(I)
b. Data Bridging				
(1) Per Port				
(a) Four-Wire (Types 2463 and 2464)	***161.00***	**44.88**	**BQ9**	(I)
c. (Obsoleted, See B103.)				
d. (Obsoleted, See B103.)				
e. Telemetry and Alarm Bridging - Split Band, Active Bridging				
(1) Common Equipment, per central office				
(a) First bridging shelf, capacity of 48 two-wire connections	**376.00**	**375.00**	**XW1**	
(b) Additional bridging shelf, capacity of 56 two-wire connections installed subsequent to the first bridging shelf	**376.00**	**340.00**	**XW2**	
(c) Additional bridging shelf, capacity of 56 two-wire connections installed at the same time as the first bridging shelf	***190.00***	**210.00**	**XW8**	(I)
(2) Channel connections, per channel connected				
(a) Remote station channel connection	***10.00***	**33.00**	**XW3**	(I)
(b) Mid-link channel connection, first channel	**39.00**	**46.00**	**XW4**	
(c) Mid-link channel connection, subsequent channels	***39.00***	**46.00**	**XW5**	(I)

Note 1: Nonrecurring charges are described in B3.3.1.A.

B3. CHANNELS

B3.4 Rates and Charges (Cont'd)

B3.4.4 Optional Features and Functions[1] (Cont'd)

B. Signaling Arrangements

Signaling arrangements are provided at the customer's option to arrange channels for suitable signaling. Signaling is required on all off-premises extension channels and tie line channels associated with PBX (or similar) systems.

1. Per local channel

		Monthly Rate	Nonrecurring Charge Initial	Nonrecurring Charge Subsequent	USOC	
(a)	Ringdown-Manual[2]	**$62.00**	**$55.44**	**$277.20**	**SL3**	
(b)	Ringdown-Automatic[2]	**58.00**	**21.12**	**91.08**	**SL5**	
(c)	E & M Type[3]	**57.00**	**60.72**	**250.80**	**SLM**	
(d)	Type A (0-199 ohms)[4]	**34.00**	**58.08**	**184.80**	**SAL**	
(e)	Type B (200-899 ohms)[4]	**34.00**	**56.76**	**184.80**	**SAU**	
(f)	Type C (900 or more ohms)[4]	***10.00***	**14.52**	**184.80**	**SAY**	(I)

C. Conditioning (Voice Grade Services)

1. Conditioning provides more specific transmission characteristics for data services. There are two types of C-conditioning and one type of D-conditioning, each with different technical specifications. C-Type conditioning controls attenuation distortion and envelope delay distortion. D-Type conditioning controls the signal to C-notched noise ratio and inter-modulation distortion.

   Conditioning is charged for on a per Local Channel basis for two-point and multi-point service. For two-point services the parameters apply to each service. For multipoint services the parameters apply to any path between any two service points.

2. The types and description of the available conditioning options are as follows:

Type Conditioning	Frequency Response Specifications	Envelope Delay Distortion Specification
C1 (two-point or multipoint)	300-2700 Hz, -2dB to +6dB. 1000-2400 Hz, -1dB to +3dB. 300-3000 Hz, -3dB to +12dB.	1000-2400 Hz, less than 1000 microseconds

Note 1: Nonrecurring charges are described in B3.3.1.A.

Note 2: For use with Type 2230 and 2435 services.

Note 3: For use with Type 2432 and 2434 services.

Note 4: For use with Type 2231 service.

B3. CHANNELS

B3.4 Rates and Charges (Cont'd)

B3.4.4 Optional Features and Functions[1] (Cont'd)

C. Conditioning (Voice Grade Services) (Cont'd)

2. The types and description of the available conditioning options are as follows: (Cont'd)

Type Conditioning	Frequency Response Specifications	Envelope Delay Distortion Specification	
C2 (two-point or multipoint)	300-3000 Hz, -2dB to +6dB. 500-2800 Hz, -1dB to +3dB.	1000-2600 Hz, less than 500 microseconds 600-2600 Hz, less than 1500 microseconds 500-2800 Hz, less than 3000 microseconds	
		Non-Linear Distortion	
	C-Notched Noise	2nd Order Distortion	3rd Order Distortion
D1 (two-point)	Noise level 28dB below signal level	35dB below signal level	40dB below signal level

3. When a channel is equipped with Type D1 conditioning and is utilized for voice communications, the Company does not undertake to represent that the channel will be suitable for such voice transmission.

	Monthly Rate	Nonrecurring Charge Initial	Nonrecurring Charge Subsequent	USOC	
4. C-Type Conditioning					
a. C-Type Conditioning is available for Types 2463 and 2464.					
(1) C-Types of Conditioning per local channel					
(a) C1-Type	***$10.00***	**$13.20**	**$113.52**	**P2W**	(I)
(b) C2-Type	***10.00***	**29.04**	**125.40**	**P3W**	(I)
5. D-Type Conditioning					
a. D-Type Conditioning is available for Types 2463 and 2464.					
(1) D-Type Conditioning per local channel					
(a) D1-Type	**2.00**	**21.12**	**118.80**	**QHA**	

Note 1: Nonrecurring charges are described in B3.3.1.A.